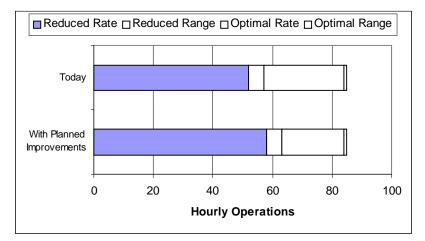
Las Vegas International Airport Benchmarks

- The current capacity benchmark at Las Vegas International Airport is 84-85 flights per hour in good weather.
- Current capacity falls to 52-57 flights (or fewer) per hour in adverse weather conditions, which may include poor visibility, unfavorable winds or heavy precipitation.
- In 2000, less than 1% of Las Vegas' flights were delayed longer than 15 minutes.
- In good weather, scheduled traffic at Las Vegas rarely exceeds capacity.
- In adverse weather, scheduled traffic exceeds capacity for roughly 5 hours of the day, resulting in more delays.
- Technology and procedural improvements are not expected to improve the Las Vegas capacity benchmark during good weather conditions over the next 10 years. However, the adverse weather capacity benchmark will increase by 12% (to 58-63 flights per hour).
- These capacity increases could be brought about as a result of:
 - ADS-B/CDTI (with LAAS), which provides a cockpit display of the location of other aircraft and will help the pilot maintain the desired separation more precisely.
 - FMS/RNAV Routes, which allow a more consistent flow of aircraft to the runway.
- Demand at Las Vegas is expected to grow by 30% over the next decade, indicating that delays are expected to increase in the future.

Airport Capacity Benchmarks — These values are for total operations achievable under specific conditions:

- Optimum Rate Visual Approaches (VAPS), unlimited ceiling and visibility
- Reduced Rate Most commonly used instrument configuration, below visual approach minima

Scenario	Optimum Rate	Reduced Rate
Today	84-85	52-57
New Runway	N/A	N/A
With planned improvements	84-85	58-63



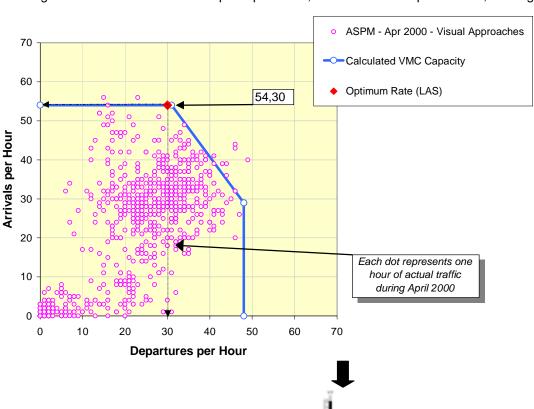
- The benchmarks describe an achievable level of performance for the given conditions, which can occasionally be exceeded. Lower rates can be expected under adverse conditions. Note: In some cases, facilities provided separate unbalanced maximum arrival and departure rates.
- Planned Improvements include:
 - ADS-B/CDTI (with LAAS) provides a cockpit display of the location of other aircraft. This will help the pilot maintain the desired separation more precisely.
 - FMS/RNAV Routes allows more consistent delivery of aircraft to the runway threshold.
- Benefits from Planned Improvements assume that all required infrastructure and regulatory approvals
 will be in place. This includes aircraft equipage, airspace design, environmental reviews, frequencies,
 training, etc. as needed.
- **Note:** These benchmarks do not consider any limitation on airport traffic flow that may be caused by non-runway constraints at the airport or elsewhere in the NAS. Such constraints may include:
 - Taxiway and gate congestion, runway crossings, slot controls, construction activity
 - Terminal airspace, especially limited departure headings
 - Traffic flow restrictions caused by en route miles-in-trail restrictions, weather or congestion problems at other airports
 - Seasonal limitations due to high temperatures that restrict aircraft climb rates

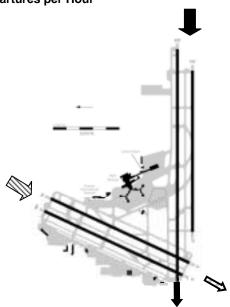
These values were calculated for the Capacity Benchmarking task and should not be used for other purposes, particularly if more detailed analyses have been performed for the individual programs.

The list of Planned Improvements and their expected effects on capacity does not imply FAA commitment to or approval of any item on the list.

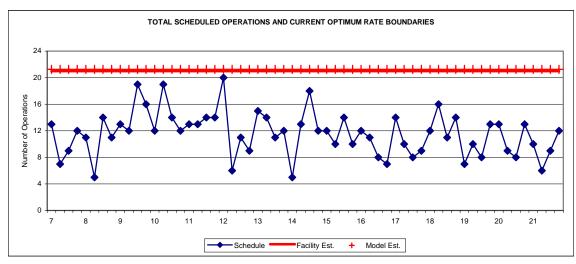
Current Operations – Optimum Rate

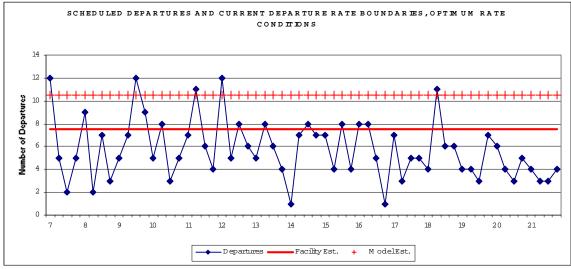
- Visual approaches, visual separation Optimum Rate of (54, 30) was reported by the facility
 Arrive Runways 25L/19R, Depart Runway 25R
- ASPM data is actual hourly traffic counts for the month of April 2000 for Visual Approach conditions. This data includes other runway configurations and off-peak periods.
- Solid line represents the calculated airport capacity during a busy hour, and the tradeoff between arrivals and departure rates
- The capacity model can only approximate the operations at LAS. Specific constraints at LAS include significant non-scheduled helicopter operations, noise abatement procedures, and high terrain.

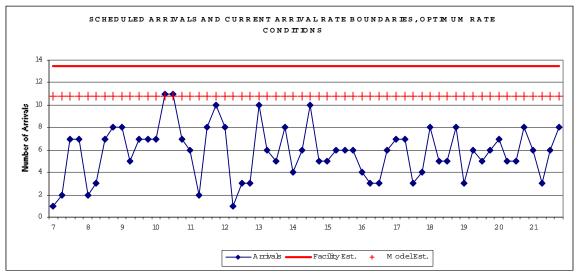




Scheduled Departures and Arrivals and Current Departure and Arrival Rate Boundaries (15-Minute Periods) Under Optimum Rate Conditions

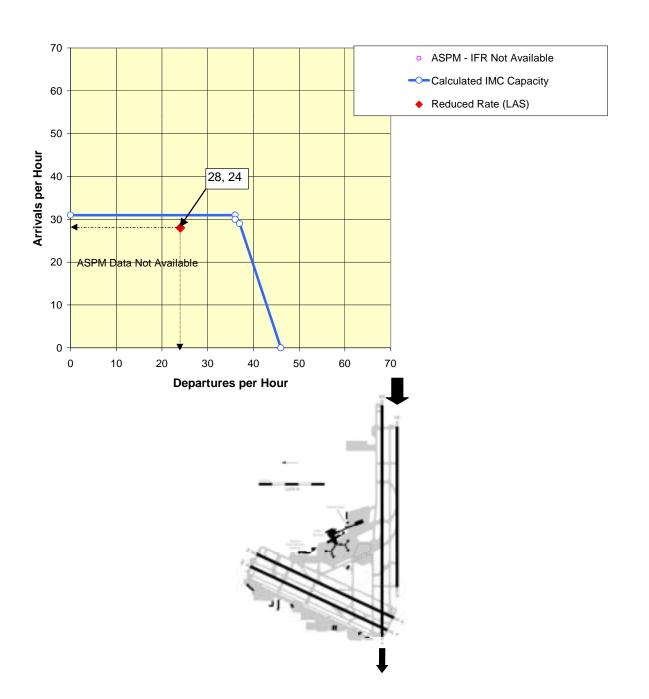






Current Operations – Reduced Rate

- Instrument approaches (below Visual Approach Minima)
 - Arrive Runway 25L, Depart Runway 25R
- Reduced Rate of (28, 24) was reported by the facility
- ASPM data for "Instrument Approaches" can include marginal VFR, with higher acceptance rates
- Chart below represents observed traffic and expected rates in terms of operations per hour



Scheduled Departures and Arrivals and Current Departure and Arrival Rate Boundaries (15-Minute Periods) Under Reduced Rate Conditions

